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Title: CONTROLLABLE RELEASE OF A VOLATILE SUBSTANCE

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IN THE CLAIMS

Please cancel claims 1-26

Please add the following claims which contain no new matter:

Claim 27 (new): A device for releasing a volatile substance into an environment comprising:

- a housing having an interior region, an outer surface, and an discharge opening, wherein the housing includes a volatile substance cartridge having an outlet for containing a volatile substance therewithin;
- means for orienting the device such that gravity forces the volatile substance toward the outlet of the cartridge and into a chamber configured to temporarily retain the volatile substance; and
- means for moving the chamber such that an opening in the chamber is in communication with the discharge opening such that a fixed amount of the volatile substance dispenses onto an emanator, and wherein the volatile substance in the cartridge of the housing is substantially protected from exposure to the outside environment, said chamber being movable into a position for receiving volatile substance from the outlet will preventing said volatile substance from dispensing onto the emanator.

Claim 28 (new) A device for releasing a volatile substance into an environment comprising:

- a housing having an interior region, an outer surface, and an discharge opening, wherein the housing includes a volatile substance cartridge for containing a fluid therewithin, the cartridge having an outlet;
- a chamber for temporarily holding the volatile substance the chamber having a first opening for receiving volatile substance from the cartridge outlet; and
- a controller for moving the chamber such that a second opening in the chamber is in communication with the discharge opening such that a fixed amount of the volatile substance dispenses onto an emanator, the controller being movable into a position

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for receiving volatile substance from the outlet will preventing said volatile substance from dispensing onto the emanator.

Claim 29 (new): The device of claim 28, wherein the housing and the controller isolate the volatile substance from the outside air and substantially prevent loss of the volatile substance until and after a desired release.

Claim 30 (new): The device of claim 28, wherein the housing, controller and emanator can operate with large swings in temperature and pressure of the outside environment.

Claim 31 (new): The device according to claim 28, wherein the controller further comprises a rotatable valve for releasing a fixed amount of volatile substance onto an emanator to be released over time into the surrounding environment.

Claim 32 (new): The device according to Claim 28, further including seals for protecting volatile substance in the cartridge from exposure to the outside environment.

Claim 33 (new): The device according to claim 28, wherein the controller comprises an electrically operated valve which releases fixed amounts of the volatile substance onto the emanator while isolating the remaining volatile substance in the housing from the outside environment such that there is substantially no loss of volatile substance until the chamber is moved.

Claim 34 (new): The device according to claim 28, wherein the device is configured for use in automobiles, vehicles, airplanes, trains or other room spaces where large temperature and pressure swings exist.

Claim 35 (new): The device according to claim 28, wherein the emanator is selected from the group consisting of porous plastic, cellulose pads, porous glass, ceramic pads, heated pads, piezo electric pads or ultrasonic pads, fans and combinations thereof.

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Claim 36 (new): The device according to claim 28, wherein the housing is constructed of a substantially rigid material having means for allowing air to fill the space when a predetermined amount of volatile substance controllably leaves the reservoir.

Claim 37 (new): The device according to claim 28, wherein the volatile substance is selected from the group comprising fragrances, medicaments, insect repellants, cleaning chemicals and combination thereof.

Claim 38 (new): The device according to claim 28, wherein the controller comprises a frame with a shuttle inside, the shuttle defining the chamber, the controller further comprising a plurality of seals surrounding the shuttle, and a biasing spring in contact with the shuttle.

Claim 39 (new): The device according to claim 28, wherein the first and second opening of the chamber are the same opening.

Claim 40 (new): The device according to claim 28, wherein the controller comprises a rotating pin.

Claim 41 (new): The device according to claim 40, wherein the rotating pin includes mechanical stops.

Claim 42 (new): The device according to claim 40, wherein the rotating pin has a spring return.

Claim 43 (new): The device according to claim 28, wherein the emanator further comprises a surface to receive the fluid, the surface being an absorbent pad.

Claim 44 (new): The device according to claim 28, wherein the emanator further comprises a surface to receive the fluid, the surface being a hard surface.

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Claim 45 (new): The device according to claim 28, further comprising a heating element in

communication with the emanator for increasing volatilization.

Claim 46 (new): The device according to claim 28, further comprising means for increasing

airflow adjacent the emanator.

Claim 47 (new): The device according to claim 28, wherein the cartridge is replaceable.

Claim 48 (new): The device according to claim 28, wherein the cartridge is refillable.

Claim 49 (new): A method of releasing a volatile substance into an outside environment

comprising the steps of:

- storing a volatile substance in a reservoir;

- releasing a fixed dose of the volatile substance from the reservoir into a chamber;

- temporarily holding the volatile substance in the chamber;

- moving the chamber by actuating a controller such that the volatile substance exits

the chamber onto an emanator; and

- vaporizing the fixed dose of the volatile substance into the outside.

Claim 50 (new): The method of claim 49, wherein the step of releasing volatile substance into a

chamber comprises the step of activating the controller from a first position to a second position

while preventing release of the volatile substance onto the emanator.

Claim 51 (new): The method of claim 49, wherein the step of moving the chamber is selected

from the steps of manually or electronically moving the chamber.